## **AMENDMENTS TO THE CLAIMS**

Please replace the claims, including all prior versions, with the listing of claims found below.

## **Listing of Claims:**

1-71. (Canceled)

72-79. (Withdrawn)

80. (Newly added) A semiconductor light-emitting device, comprising:

a base substance;

a semiconductor light-emitting element on the base substance, wherein the semiconductor light-emitting element has outgoing light having an emission wavelength of 390 to 420 nm, exclusive of 390 nm so that the outgoing light is almost invisible to human eyes; and

a fluorescent substance that is excited by the outgoing light from the semiconductor light-emitting element and emits red light having an emission wavelength with its main emission peak in a wavelength range of 600 to 670 nm.

81. (Newly added) The semiconductor light-emitting device according to claim 80, wherein the fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

M<sub>2</sub> O<sub>2</sub> S: Eu (M is any one or more elements selected from La, Gd and Y);

 $0.5 \text{ MgF}_2 \cdot 3.5 \text{MgO} \cdot \text{GeO}_2 : \text{Mn};$ 

 $Y_2 O_3 : Eu;$ 

 $Y(P, V) O_4$ : Eu; and

YVO<sub>4</sub>: Eu.

82. (Newly added) A semiconductor light-emitting device, comprising:

a base substance:

a semiconductor light-emitting element on the base substance, wherein the semiconductor light-emitting element has outgoing light having an emission wavelength in a range

of 390 to 420 nm, exclusive of 390 nm so that the outgoing light is almost invisible to human eyes; and

a fluorescent substance that is excited by the outgoing light from the semiconductor light-emitting element and emits green light having an emission wavelength with its main emission peak in a wavelength range of 500 to 540 nm.

83. The semiconductor light-emitting device according to claim 82, wherein the fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

RMg<sub>2</sub> Al<sub>1 6</sub> O<sub>2 7</sub>: Eu, Mn (R is any one or both elements selected from Sr and Ba);

RMgAl<sub>10</sub> O<sub>17</sub>: Eu, Mn (R is any one or both elements selected from Sr and Ba);

ZnS: Cu;

SrAl<sub>2</sub> O<sub>4</sub>: Eu;

SrAl<sub>2</sub> O<sub>4</sub>: Eu, Dy;

ZnO: Zn;

 $Zn_2 Ge_2 O_4 : Mn;$ 

Zn<sub>2</sub> SiO<sub>4</sub>: Mn; and

Q<sub>3</sub> MgSi<sub>2</sub> O<sub>8</sub>: Eu, Mn (Q is any one or more elements selected from Sr, Ba and Ca).

84. (Newly added) A semiconductor light-emitting device, comprising:

a base substance;

a semiconductor light-emitting element on the base substance, wherein the semiconductor light-emitting element has outgoing light having an emission wavelength in a range of 390 to 420 nm, exclusive of 390 nm so that the outgoing light is almost invisible to human eyes; and

a fluorescent substance that is excited by the outgoing light from the semiconductor light-emitting element and emits blue light having an emission wavelength with its main emission peak in a wavelength range of 410 to 480 nm.

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85. The semiconductor light-emitting device according to claim 84, wherein the fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

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 $A_{1\ 0}$  (PO<sub>4</sub> )  $_6$  Cl $_2$  : Eu (A is any one or more elements selected from Sr, Ca, Ba, Mg and Ce);

XMg<sub>2</sub> Al<sub>1 6</sub> O<sub>2 7</sub>: Eu (X is any one or both elements selected from Sr and Ba);

XMgAl<sub>10</sub> O<sub>17</sub>: Eu (X is any one or both elements selected from Sr and Ba);

ZnS: Ag;

Sr<sub>10</sub> (PO<sub>4</sub>) 6 Cl<sub>2</sub>: Eu;

Ca<sub>10</sub> (PO<sub>4</sub>) <sub>6</sub> F<sub>2</sub>: Sb;

Z<sub>3</sub> MgSi<sub>2</sub> O<sub>8</sub>: Eu (Z is any one or more elements selected from Sr, Ca and Ba);

SrMgSi<sub>2</sub> O<sub>8</sub>: Eu;

Sr<sub>2</sub> P<sub>2</sub> O<sub>7</sub>: Eu; and

CaAl<sub>2</sub> O<sub>4</sub>: Eu, Nd.

86. (Newly added) A semiconductor light-emitting device, comprising:

a base substance;

a semiconductor light-emitting element on the base substance, wherein the semiconductor light-emitting element has outgoing light having an emission wavelength in a range of 390 to 420 nm, exclusive of 390 nm so that the outgoing light is almost invisible to human eyes; and

a fluorescent substance that is excited by the outgoing light from the semiconductor light-emitting element and emits blue green light having an emission wavelength with its main emission peak in a wavelength range of 480 to 500 nm.

87. (Newly added) The semiconductor light-emitting device according to claim 86, wherein the fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

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Sr<sub>4</sub> Al<sub>1 4</sub> O<sub>2 5</sub>: Eu, Dy;

L<sub>10</sub> (PO<sub>4</sub>) 6 Cl<sub>2</sub>: Eu (L is any one or more elements selected from Ba, Ca and Mg);

and

Sr<sub>2</sub> Si<sub>3</sub> O<sub>8</sub> ·2SrCl<sub>2</sub> : Eu.

88. (Newly added) A semiconductor light-emitting device, comprising:

a base substance;

a semiconductor light-emitting element on the base substance, wherein the semiconductor light-emitting element has outgoing light having an emission wavelength in a range of 390 to 420 nm, exclusive of 390 nm so that the outgoing light is almost invisible to human eyes; and

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a fluorescent substance that is excited by the outgoing light from the semiconductor light-emitting element and emits orange light having an emission wavelength with its main emission peak in a wavelength range of 570 to 600 nm.

89. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

ZnS: Mn; and

ZnS: Cu, Mn, Co.

90. (Newly added) The semiconductor light-emitting device according to Claim 89, wherein a sealing resin for sealing at least a part of the base substance and the semiconductor light-emitting element is included; and

the sealing resin includes the fluorescent substance.

91. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein a sealing resin for sealing at least a part of the base substance and the semiconductor light-emitting element is included; and

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the sealing resin includes the fluorescent substance.

92. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein a sealing resin for sealing at least a part of the base substance and the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.

- 93. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein a sealing resin for sealing at least a part of the base substance and the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.
- 94. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein a sealing resin for sealing at least a part of the base substance and the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.
- 95. (Newly added) The semiconductor light-emitting device according to Claim 90, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; and

at least a part of the two lead frames and the semiconductor light-emitting element are sealed with the sealing resin.

96. (Newly added) The semiconductor light-emitting device according to Claim 90, wherein the base substance is an insulator connected to ends of a pair of lead frames; the semiconductor light-emitting element is connected to metallic wiring formed on the insulator; and

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at least a part of the pair of lead frames, the insulator and the semiconductor lightemitting element are sealed with the sealing resin.

- 97. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; the fluorescent substance is filled in the cup-shaped mount section; and at least a part of the two lead frames, the semiconductor light-emitting element and the fluorescent substance are sealed with a sealing resin.
- 98. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; the fluorescent substance is filled in the cup-shaped mount section; and at least a part of the two lead frames, the semiconductor light-emitting element and the fluorescent substance are sealed with a sealing resin.
- 99. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; the fluorescent substance is filled in the cup-shaped mount section; and at least a part of the two lead frames, the semiconductor light-emitting element and the fluorescent substance are sealed with a sealing resin.
- 100. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a lead frame having a cup-shaped mount section;

the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; the fluorescent substance is filled in the cup-shaped mount section; and at least a part of the two lead frames, the semiconductor light-emitting element and the fluorescent substance are sealed with a sealing resin.

- 101. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; the fluorescent substance is filled in the cup-shaped mount section; and at least a part of the two lead frames, the semiconductor light-emitting element and the fluorescent substance are sealed with a sealing resin.
- 102. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; a coating member is filled in the cup-shaped mount section and the fluorescent substance is disposed on the coating member; and at least a part of the two lead frames, the semiconductor light-emitting element, the

coating member and the fluorescent substance are sealed with a sealing resin.

103. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a lead frame having a cup-shaped mount section; the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding; a coating member is filled in the cup-shaped mount section and the fluorescent substance is disposed on the coating member; and

at least a part of the two lead frames, the semiconductor light-emitting element, the coating member and the fluorescent substance are sealed with a sealing resin.

104. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a lead frame having a cup-shaped mount section;

the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding;

a coating member is filled in the cup-shaped mount section and the fluorescent substance is disposed on the coating member; and

at least a part of the two lead frames, the semiconductor light-emitting element, the coating member and the fluorescent substance are sealed with a sealing resin.

105. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a lead frame having a cup-shaped mount section;

the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding;

a coating member is filled in the cup-shaped mount section and the fluorescent substance is disposed on the coating member; and

at least a part of the two lead frames, the semiconductor light-emitting element, the coating member and the fluorescent substance are sealed with a sealing resin.

106. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a lead frame having a cup-shaped mount section;

the semiconductor light-emitting element is disposed at the bottom of the cup-shaped mount section of the lead frame and electrically connected to another lead frame by wire bonding;

a coating member is filled in the cup-shaped mount section and the fluorescent substance is disposed on the coating member; and

at least a part of the two lead frames, the semiconductor light-emitting element, the coating member and the fluorescent substance are sealed with a sealing resin.

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107. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected the metallic wiring on the substrate;

a sealing resin for sealing the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.

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108. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected the metallic wiring on the substrate;

a sealing resin for sealing the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.

109. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected the metallic wiring on the substrate;

a sealing resin for sealing the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.

110. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected the metallic wiring on the substrate;

a sealing resin for sealing the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance. Application No.: 09/957,472 11 Docket No.: 204552021500

111. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected the metallic wiring on the substrate;

a sealing resin for sealing the semiconductor light-emitting element is included; and the sealing resin includes the fluorescent substance.

112. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion; and

the fluorescent substance is filled in the recessed portion.

113. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion; and

the fluorescent substance is filled in the recessed portion.

114. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion; and

the fluorescent substance is filled in the recessed portion.

115. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion; and

the fluorescent substance is filled in the recessed portion.

116. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion; and the fluorescent substance is filled in the recessed portion.

- 117. (Newly added) The semiconductor light-emitting device according to Claim 112, wherein the recessed portion is formed by a frame disposed on the substrate.
- 118. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion;

a sealing resin is filled in the recessed portion; and the fluorescent substance is disposed on the sealing resin.

119. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion;

a sealing resin is filled in the recessed portion; and the fluorescent substance is disposed on the sealing resin.

120. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion;

a sealing resin is filled in the recessed portion; and the fluorescent substance is disposed on the sealing resin.

121. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion;

a sealing resin is filled in the recessed portion; and the fluorescent substance is disposed on the sealing resin.

122. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate and disposed in a recessed portion;

a sealing resin is filled in the recessed portion; and the fluorescent substance is disposed on the sealing resin.

123. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

the fluorescent substance is included in the sealing resin.

124. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

the fluorescent substance is included in the sealing resin.

125. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

the fluorescent substance is included in the sealing resin.

126. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

the fluorescent substance is included in the sealing resin.

127. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein

the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

the fluorescent substance is included in the sealing resin.

128. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a shielding body for shielding light directly emitted from the semiconductor lightemitting element to the outside of the semiconductor light-emitting device is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

129. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

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a shielding body for shielding light directly emitted from the semiconductor lightemitting element to the outside of the semiconductor light-emitting device is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

130. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a shielding body for shielding light directly emitted from the semiconductor lightemitting element to the outside of the semiconductor light-emitting device is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

131. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a shielding body for shielding light directly emitted from the semiconductor lightemitting element to the outside of the semiconductor light-emitting device is included; a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

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a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

132. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a shielding body for shielding light directly emitted from the semiconductor lightemitting element to the outside of the semiconductor light-emitting device is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

133. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

at least a light-emitting section of the semiconductor light-emitting element is disposed in a recessed portion in the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

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a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

134. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

at least a light-emitting section of the semiconductor light-emitting element is disposed in a recessed portion in the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

135. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

at least a light-emitting section of the semiconductor light-emitting element is disposed in a recessed portion in the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

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136. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

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the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

at least a light-emitting section of the semiconductor light-emitting element is disposed in a recessed portion in the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

137. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

at least a light-emitting section of the semiconductor light-emitting element is disposed in a recessed portion in the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the reflector that reflects light.

138. (Newly added) The semiconductor light-emitting device according to Claim 80, wherein the base substance is a substrate provided with metallic wiring;

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the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

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a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the sealing resin that reflects light.

139. (Newly added) The semiconductor light-emitting device according to Claim 82, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the sealing resin that reflects light.

140. (Newly added) The semiconductor light-emitting device according to Claim 84, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the sealing resin that reflects light.

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141. (Newly added) The semiconductor light-emitting device according to Claim 86, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the sealing resin that reflects light.

142. (Newly added) The semiconductor light-emitting device according to Claim 88, wherein the base substance is a substrate provided with metallic wiring;

the semiconductor light-emitting element is electrically connected to the metallic wiring on the substrate;

a reflector for reflecting at least a part of outgoing light from the semiconductor light-emitting element is included;

a sealing resin for sealing the semiconductor light-emitting element and transmitting reflected light from the reflector is included; and

a layer of the fluorescent substance is formed on a surface of the sealing resin that reflects light.

143. (Newly added) A semiconductor light-emitting device, comprising: a base substance;

a semiconductor light-emitting element on the base substance, wherein the semiconductor light-emitting element has outgoing light having emission wavelengths of 390 to 420 nm, exclusive of 390 nm so that the outgoing light is almost invisible to human eyes;

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a first fluorescent substance;

a second fluorescent substance; and

a third fluorescent substance, wherein

the first fluorescent substance has red outgoing light having emission wavelengths with its main emission peak in a wavelength range of 600 to 670 nm;

the second fluorescent substance has green outgoing light having emission wavelengths with its main emission peak in a wavelength range of 500 to 540 nm;

the third fluorescent substance has blue outgoing light having emission wavelengths with its main emission peak in a wavelength range of 410 to 480 nm; and

the sum of colors of light emitted from the first, second and third fluorescent substances is a white color.

144. (Newly added) The semiconductor light-emitting device according to claim 143, wherein the first fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

M<sub>2</sub> O<sub>2</sub> S: Eu (M is any one or more elements selected from La, Gd and Y);

 $0.5MgF_2 \cdot 3.5MgO \cdot GeO_2 : Mn;$ 

Y<sub>2</sub> O<sub>3</sub>: Eu,

 $Y(P, V) O_4$ : Eu; and

YVO<sub>4</sub>: Eu;

the second fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

RMg<sub>2</sub> Al<sub>1 6</sub> O<sub>2 7</sub>: Eu, Mn (R is any one or both elements selected from Sr and Ba);

RMgAl<sub>10</sub>O<sub>17</sub>: Eu, Mn (R is any one or both elements selected from Sr and Ba);

ZnS: Cu;

SrAl<sub>2</sub> O<sub>4</sub>: Eu;

SrAl<sub>2</sub> O<sub>4</sub>: Eu, Dy;

ZnO: Zn;

Zn<sub>2</sub> Ge<sub>2</sub> O<sub>4</sub>: Mn;

Zn<sub>2</sub> SiO<sub>4</sub>: Mn; and

Q<sub>3</sub> MgSi<sub>2</sub> O<sub>8</sub>: Eu, Mn (Q is any one or more elements selected from Sr, Ba and Ca);

and

the third fluorescent substance is composed of any one or more selected from a fluorescent substance group consisting of:

 $A_{1\ 0}\ (PO_4\ )\ _6\ Cl_2: Eu\ (A\ is\ any\ one\ or\ more\ elements\ selected\ from\ Sr,\ Ca,\ Ba,\ Mg$  and Ce);

XMg<sub>2</sub> Al<sub>1 6</sub> O<sub>2 7</sub>: E (X is any one or both elements selected from Sr and Ba);

XMgAl<sub>10</sub>O<sub>17</sub>: Eu (X is any one or both elements selected from Sr and Ba);

ZnS: Ag;

Sr<sub>10</sub> (PO<sub>4</sub>) 6 Cl<sub>2</sub>: Eu;

 $Ca_{10}(PO_4)_6F_2:Sb;$ 

Z<sub>3</sub> MgSi<sub>2</sub> O<sub>8</sub>: Eu (Z is any one or more elements selected from Sr, Ca and Ba);

SrMgSi<sub>2</sub> O<sub>8</sub>: Eu;

 $Sr_2 P_2 O_7$ : Eu; and

CaAl<sub>2</sub> O<sub>4</sub>: Eu, Nd.

145. (Newly added) The semiconductor light-emitting device according to Claim 143, wherein, assuming the total amount as 100 weight %,

the first fluorescent substance is between 50 weight % and 70 weight % inclusive; the second fluorescent substance is between 7 weight % and 20 weight % inclusive;

the third fluorescent substance is between 20 weight % and 30 weight % inclusive.

146. (Newly added) The semiconductor light-emitting device according to Claim 145, wherein the sealing resin includes the first, second and third fluorescent substances; and

and

the proportion of the total weight of the first, second and third fluorescent substances to the weight of the sealing resin is between 0.5 and 1 inclusive.

147. (Newly added) A light-emitting display device comprising;

a light source using the semiconductor light-emitting device according to Claim 64; a light guiding plate for guiding light from the light source; and

red, green and blue color filters for transmitting light from the light guiding plate and dividing the light; the light-emitting display device, wherein

outgoing light from the semiconductor light-emitting device has a wavelength distribution that matches spectral characteristics of the color filters.

148. (Newly added) The light-emitting display device according to Claim 147, wherein at least one of the following is adjusted so that the wavelength distribution of the outgoing light from the semiconductor light-emitting device matches spectral characteristics of the color filters:

the emission wavelength of the semiconductor light-emitting element;
the emission wavelength of the first fluorescent substance;
the emission wavelength of the second fluorescent substance;
the emission wavelength of the third fluorescent substance;
the mixture proportions of the first, second and third fluorescent substances; and
the proportion of the total weight of the first, second and third fluorescent substances
to the weight of the sealing resin.

- 149.(Newly added) The light-emitting display device according to Claim 147, wherein the light-emitting display device is a liquid crystal display device.
- 150. (Newly added) The light-emitting display device according to Claim 148, wherein the light-emitting display device is a liquid crystal display device.
- 151. (Newly added) The light-emitting display device according to Claim 80, wherein

the emission wavelength of the outgoing light is 400 to 420 nm.

- 152. (Newly added) The light-emitting display device according to Claim 82, wherein the emission wavelength of the outgoing light is 400 to 420 nm.
- 153. (Newly added) The light-emitting display device according to Claim 84, wherein the emission wavelength of the outgoing light is 400 to 420 nm.
- 154. (Newly added) The light-emitting display device according to Claim 86, wherein the emission wavelength of the outgoing light is 400 to 420 nm.
- 155. (Newly added) The light-emitting display device according to Claim 88, wherein the emission wavelength of the outgoing light is 400 to 420 nm.
- 156. (Newly added) The light-emitting display device according to Claim 143, wherein the emission wavelength of the outgoing light is 400 to 420 nm.